	Type	L #	Hits	Search Text	DBs
				(purge or purging or	US-
1	BRS	L1	848	drain\$6 or vacuum) same	PGPUB;
				synthesizer	USPAT
		İ		1 and (pressure or	US-
2	BRS	L2	369	pressurize or	PGPUB;
				pressurization)	USPAT
				1 and (pressure or	US-
3	BRS	L3	369	pressurize or	PGPUB;
				pressurization or	USPAT
				pressurizing)	001111
				3 and (vial or tube or	US-
4	BRS	Ľ 4	46	reactor) near8 (set or bank	PGPUB;
				or line)	USPAT
				1 and (waste or drain) with	US-
5	BRS	L5	82	(tube or line or port or	PGPUB;
<u> </u>				outlet)	USPAT
				4 and (waste or drain) with	US-
6	BRS	L6	26	(tube or line or port or	PGPUB;
				outlet)	USPAT
			101725	/	US-
7	BRS	上7		(purge or purging or	PGPUB;
			8	drain\$6 or vacuum)	USPAT
				7 and (pressure or	7.7.0
0	DDC	L8	602909	pressurize or	US-
8	BRS	րջ		pressurization or	PGPUB;
			N.	pressurizing)	USPAT
				8 and (waste or drain) with	US-
9	BRS	L9	53855	(tube or line or port or	PGPUB;
				outlet)	USPAT
				9 and (movable or moveable	1
10	DD0	- 10	0101	or couple or coupling)	US-
10	BRS	上10	9101	near8 (tube or drain or	PGPUB;
				valve or outlet)	USPAT
				3 and (movable or moveable	110
	DDG	7 1 1	26	or couple or coupling)	US-
11	BRS	L11	26	mear8 (tube or drain or	PGPUB;
				valve or outlet)	USPAT
				1 and (movable or moveable	1
1 0	DD.C		60	or couple or coupling)	US-
12	BRS	L12	62	near8 (tube or drain or	PGPUB;
				valve or outlet)	USPAT
					US-
13	BRS	L13	306	9 and synthesizer	PGPUB;
				_	USPAT

	Туре	L #	Hits	Search Text	DBs
14	BRS	L14	4520	9 and reactor	US- PGPUB; USPAT
15	BRS	L15	152	9 and combinatorial near8 synthesis	US- PGPUB; USPAT
16	BRS	L16		9 and (multiple or plurality or set or bank) near8 (vial or reactor or tube or vessel)	US- PGPUB; USPAT
17	BRS	L17	ロトンム	10 and (multiple or plurality or set or bank) near8 (vial or reactor or tube or vessel)	US- PGPUB; USPAT
18	BRS	L18	357	17 and (movable or moveable) near8 tube	US- PGPUB; USPAT

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                 visualization results
                 The IPC thesaurus added to additional patent databases on STN
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        FEB 22
NEWS 6 FEB 22
                 Updates in EPFULL; IPC 8 enhancements added
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       FEB 27
                 New STN AnaVist pricing effective March 1, 2006
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        MAR 22
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        APR 03
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                 thesaurus added in PCTFULL
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                 in MARPAT
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                 second quarter; strategies may be affected
                 CA/CAplus enhanced with 1900-1906 U.S. patent records
NEWS 16
        MAY 10
NEWS 17
        MAY 11
                 KOREAPAT updates resume
NEWS 18
        MAY 19
                 Derwent World Patents Index to be reloaded and enhanced
NEWS 19
        MAY 30
                 IPC 8 Rolled-up Core codes added to CA/CAplus and
                 USPATFULL/USPAT2
NEWS 20
        MAY 30
                 The F-Term thesaurus is now available in CA/CAplus
NEWS 21
        JUN 02
                 The first reclassification of IPC codes now complete in
                 INPADOC
NEWS EXPRESS
                 FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a,
                 CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0jc(jp),
                 AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
                 V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT
                 http://download.cas.org/express/v8.0-Discover/
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NEWS IPC8
              For general information regarding STN implementation of IPC 8
NEWS X25
              X.25 communication option no longer available after June 2006
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=> s (purge or purging or drain? or vacuum) (s) synthesizer L1 47 (PURGE OR PURGING OR DRAIN? OR VACUUM) (S) SYNTHESIZER

=> s (purge or purging or drain? or vacuum) (s) (pressurize or pressurizing or pressurization)

L4 809 (PURGE OR PURGING OR DRAIN? OR VACUUM) (S) (PRESSURIZE OR PRESSURIZATION)

=> s 14 and synthesizer L5 0 L4 AND SYNTHESIZER

=> s 14 and (movable or moveable or couple or coupled or coupling or interfac? or connect?) (s) (tube or outlet or drain or valve)

L7 45 L4 AND (MOVABLE OR MOVEABLE OR COUPLE OR COUPLED OR COUPLING OR INTERFAC? OR CONNECT?) (S) (TUBE OR OUTLET OR DRAIN OR VALVE)

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L8 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:819377 CAPLUS

DOCUMENT NUMBER: 133:351903

TITLE: Chemical synthesizer systems

INVENTOR(S): Antonenko, Valery V.; Kulikov, Nicolay V.

PATENT ASSIGNEE(S): Glaxo Wellcome Inc., USA

SOURCE: U.S., 29 pp., Cont.-in-part of U. S. Ser. No. 947,476.

CODEN: USXXAM

Patent DOCUMENT TYPE: English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6149869	Α	20001121	US 1998-58971	19980410
US 6042789	Α	20000328	US 1996-736317	19961023
US 6051439	A	20000418	US 1997-947476	19971010
PRIORITY APPLN. INFO.:			US 1996-736317	A2 19961023
			US 1997-947476	A2 19971010

AB Improved chemical synthesizers are described and methods for their use. The chemical synthesizer system is provided with a reaction vessel block having a plurality of reaction vessels which are adapted to hold solid supports. A wash plate is removably attachable to a top end of the reaction vessel block. The wash plate has a plurality of fluid delivery orifices which are aligned with the reaction vessels when the wash plate is attached to the top end of the reaction vessel block. In this way, fluids may be supplied to each of the reaction vessels through the orifices. The system can include a vortex mixer that is held stationary by evacuation of a cavity formed between the mixer base and a gasket.

REFERENCE COUNT:

THERE ARE 115 CITED REFERENCES AVAILABLE FOR 115 THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE **FORMAT**

ANSWER 2 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:688148 CAPLUS

DOCUMENT NUMBER:

133:267274

TITLE:

Polymer synthesizing apparatus

INVENTOR(S):

Hunicke-Smith, Scott P.; Guettler, Robert; Koh, Jimmy

Tiansing

PATENT ASSIGNEE(S):

Genomic Instrumentation Services, Inc., USA

SOURCE:

PCT Int. Appl., 25 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

			KIN	D :	DATE APPLICATION NO.															
				-																
	WO	2000	0564	45		A1		2000	0928	1	WO 2	000-1	US69:	13		20	0000	316		
		W:	ΑE,	ΑL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CR,	CU,		
			CZ,	DΕ,	DK,	DM,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	ΗU,	ID,	IL,		
			IN,	IS,	JP,	KE,	KG,	ΚP,	KR,	KZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,		
			MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,		
			SK,	SL,	ТJ,	TM,	TR,	TT,	TZ,	UA,	ŪĠ,	US,	UΖ,	VN,	YU,	ZA,	ZW,	AM,		
			ΑZ,	BY,	KG,	KZ,	MD,	RU,	ТJ,	TM										
		RW:	GH,	GM,	ΚE,	LS,	MW,	SD,	SL,	SZ,	TZ,	UG,	ZW,	AT,	BE,	CH,	CY,	DE,		
			DK,	ES,	FI,	FR,	GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,		
						GA,														
	US	6800	250			B1		2004	1005	1	US 2	000-	5271	06		20	0000	316		
PRIC	RITY	APP	LN.	INFO	. :					1	US 1:	999-	1252	52P]	P 19	9990:	319		
AB	Αŗ	olym	er s	ynth	esiz.	ing a	appa	ratu	s is	dis	close	ed w	hich	has	a ba	ase o	on wl	hich	sits a	
	_	thes		-		_														
																			ıq	
	block and supports for a reagent shelf. The synthesis case has a loading station, drain station, and a water tolerant reagent area and a water																			
	sensitive reagent dispensing area. The synthesis case has a cover, a																			
		st a		_		-		_			-						-		ch	

contacts the base. The bottom side of the synthesis case has a top face in which there are tracks. A synthesis block moves back and forth in the synthesis case and has a top face and an opening in the top face for a synthesis plate with a plurality of wells. The synthesis block also has a collection area under the synthesis plate to drain spent reagents or optionally hold a sample plate. The polymer synthesizer also has a means of moving the synthesis block back and forth in the synthesis case, preferably a pulley, cable and motor. The polymer synthesizer also has a means of draining the liquid from the synthesis plate. A method of synthesizing oligonucleotides with the polymer synthesizer also is disclosed.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:650517 CAPLUS

DOCUMENT NUMBER: 119:250517

TITLE: Apparatus for isolation of synthetic peptide without

loss of reagents

DATE

19960925

19930901

INVENTOR(S): Nokihara, Kiyoshi; Yamamoto, Rintaro; Nakamura, Shin

APPLICATION NO.

EP 1993-103089

DATE

19930226

PATENT ASSIGNEE(S): Shimadzu Corp., Japan SOURCE: Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

KIND

B1

A1

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

EP 558050

EP 558050

R: DE, FR, GB,	SE						
JP 05239089	A2	19930917	JP 199	2-43312		19920228	
JP 07094468	B4	19951011					
US 5356596	A	19941018	US 199	3-22036		19930224	
PRIORITY APPLN. INFO.:			JP 199	2-43312	A	19920228	
AB The title apparatus	s, used	in conjuncti	on with	a multiple-	chann	el, solid-pha	se
peptide synthesizer	c, compr	ises (1) at	least o	ne removable			
reaction vessel whi	ch carr	ies out both	synthe	sis and			
resin-cleavage read	ction-is	olation of p	eptides	and has a f	lange	ed supply	
opening for reagent							
impermeable to a so	olid sup	port matrix,	(2) a	removable st	opper	for	
plugging said drain							
supplying inert gas	under	regulable pr	essure	into a react	ion c	chamber which	
is defined by said	reaction	n vessel and	l said f	ilter, in or	der t	:0	
purge said reaction	1 chambe	r of a pepti	de solu	tion therein	as a	liquid	
phase and forcibly	pass it	via said fi	lter th	rough said d	raina	ige -	
port. The apparati	is furth	er comprises	a stan	d rack for r	etair	ably supporti	ng a
plurality of centri						age	_
of peptides from a	resin s	upport, a dr	ainage	port of each			
reaction vessel is					d int	:0	
a centrifuge tube ,							
supporting a number							
peptide synthesize :							
the reaction vesse l							
into the cleaving s	olution	, the stoppe	rs are	removed from	the	drainage port	
of each reaction v e							
into the centrifuge							
nozzle tip of a blo						l into	
contact against the							
Operating a trigger							
into the reaction o	hamber.	The peption	le-disso	lved cleavin	g sol	lution is	
thereby passed thro	ough the	drainage po	ort, and	is thus tra	nsfer	red in liquid	

phase into the centrifuge **tube** as filtrate associated with the blow unit pressure gun, a needle **tube** is provided for localized desiccation of wetted peptide after precipitation and centrifugation. The apparatus

and the use of the same reaction **vessel** for the peptide synthesis as well as its resin-cleavage and isolation improves the efficiency of the peptide isolation procedure overall, in particular to eliminate mech. losses resulting from intervessel transfer of a peptide-bound resin or peptide solution and contamination in the isolation process and thus ensure accuracy in micro-mol. regulation of small-scale peptide synthesis.

L8 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1992:152415 CAPLUS

DOCUMENT NUMBER: 116:152415

TITLE: Method and apparatus for biopolymer synthesis
INVENTOR(S): Zuckermann, Ronald N.; Heubner, Verena D.; Santi,

Daniel V.; Siani, Michael A.

PATENT ASSIGNEE(S): Protos Corp., USA SOURCE: PCT Int. Appl., 65 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9117823		19911128	WO 1991-US2776	19910423
W: CA, JP	מנו דים די	ע הל הם	CD CD TT III NI	CE
			GB, GR, IT, LU, NL,	
05 5182366	A	19930126	US 1990-523791	
CA 2082650 CA 2082650	AA	19911116	CA 1991-2082650	19910423
JP 05509257			JP 1991-509001	19910423
JP 2544269				
			EP 1991-909373	19910423
EP 593460				
	B2			
•	•		GB, GR, IT, LI, LU,	
AT 128380			AT 1991-909373	
ES 2079064			ES 1991-909373	
US 5705610			US 1993-131057	
US 5811387			US 1995-438746	
US 5965695	. A	19991012	US 1995-438896	19950510
US 6075121	Α	20000613	US 1995-438436	19950510
US 5840841	Α	19981124		
ORITY APPLN. INFO.	:		US 1990-523791	A 19900515
			US 1991-652194	A 19910207
			US 1990-538339	B2 19900614
			WO 1991-US2776	W 19910423
			US 1991-715823	B3 19910614
			US 1993-131057	

AB A synthesizer for biopolymers (polypeptides, polynucleotides) using multiple reaction vessels having particle filters in their bottoms and containing solid phase particle support media is operated via a vacuum source, a compressed gas source, and (solenoid) valving. A robotic arm may be used for transfer of liquid reagents from reagent vessels to the reaction vessels.

L8 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1988:413191 CAPLUS

DOCUMENT NUMBER: 109:13191

TITLE: Efficiency estimates of two ways of muon production in

HMC[hybrid muon catalyzed]-reactor

AUTHOR(S): Petrov, Yu. V.; Sakhnovskii, E. G.

CORPORATE SOURCE: Leningrad Nucl. Phys. Inst., Gatchina, 188350, USSR

SOURCE: Muon Catalyzed Fusion (1988), 3(1-4), 571-6

CODEN: MCFUEX; ISSN: 0259-9805

DOCUMENT TYPE: Journal LANGUAGE: English

AB The efficiency of muon utilization is estimated by the Monte Carlo method for

2 ways of muon production: in the **reactor** either with the **vacuum** decay unit as a converter or without converter with the gaseous D-T target as a **synthesizer**. The losses of muons in a

Li pion-producing target are evaluated for the model with a converter.

L8 ANSWER 6 OF 11 INSPEC (C) 2006 IET on STN ACCESSION NUMBER: 2001:6802291 INSPEC DOCUMENT NUMBER: B2001-02-1350H-022

TITLE: CMOS RF integrated circuits at 5 GHz and beyond AUTHOR: Lee, T.H.; Wong, S.S. (Center for Integrated Syst.,

Stanford Univ., CA, USA)

SOURCE: Proceedings of the IEEE (Oct. 2000), vol.88, no.10, p.

1560-71, 26 refs.

CODEN: IEEPAD, ISSN: 0018-9219

SICI: 0018-9219(200010)88:10L.1560:CICB;1-U

Price: 0018-9219/2000/\$10.00 Doc.No.: S0018-9219(00)09131-3

Published by: IEEE, USA

DOCUMENT TYPE: Journal

TREATMENT CODE: Application; General Review; Practical

COUNTRY: United States

LANGUAGE: English

AN 2001:6802291 INSPEC DN B2001-02-1350H-022

AB A strong demand for wireless products, an insatiable thirst for spectrum that pushes carrier frequencies ever upward, and the constant quest for higher performance at lower power and cost, have recently driven the development of radio frequency integrated circuit (RFIC) technology in unprecedented ways. These pressures are stimulating novel solutions that allow RFICs to enjoy more of the benefits of Moore's law than has been the case in the past. In addition to regular raw transistor speed increases, the growing number of interconnect layers allows the realization of improved inductors, capacitors, and transmission lines. A deeper understanding of noise at both the device and circuit level has improved the performance of low noise amplifiers (LNAs) and oscillators. Finally, an appropriate raiding of circuit ideas dating back to the vacuum tube era enables excellent performance, even when working close to the limits of a technology. This paper surveys some of these developments in the context of low-power RF CMOS technology, with a focus on an illustrative implementation of a low-power 5-GHz wireless LAN receiver in 0.25-µm CMOS. Thanks to these recent advances in passive components and active circuits, the blocks comprising the receiver consume a total of approximately 37 mW. These blocks include an image-reject LNA, image-reject downconverter, and a complete frequency synthesizer. The overall noise figure is 5 dB, and the input-referred third-order intercept (IIP3) is -2 dBm. To underscore that 5 GHz does not represent an upper bound by any means, this paper concludes with a look at active circuits that function beyond 15-20 GHz, and a characterization of on-chip transmission lines up to 50 GHz, all in the context of how scaling is expected to shape future developments

L8 ANSWER 7 OF 11 INSPEC (C) 2006 IET on STN ACCESSION NUMBER: 1995:5104827 INSPEC

DOCUMENT NUMBER: A1995-24-9480-003; B1995-12-6320-022;

C1995-12-7340-108

TITLE: The frequency-agile radar: a multifunctional approach

to remote sensing of the ionosphere

AUTHOR: Tsunoda, R.T.; Livingston, R.C.; Buonocore, J.J.;

McKinley, A.V. (Geosci. & Eng. Center, SRI Int., Menlo

Park, CA, USA)

SOURCE: Radio Science (Sept.-Oct. 1995), vol.30, no.5, p.

1623-43, 79 refs.

CODEN: RASCAD, ISSN: 0048-6604 Price: 0048-6604/95/95RS-01298\$08.00

DOCUMENT TYPE: Journal

TREATMENT CODE: New Development; Practical; Experimental

COUNTRY: United States

LANGUAGE: English

AN 1995:5104827 INSPEC DN A1995-24-9480-003; B1995-12-6320-022;

C1995-12-7340-108

Introduces a new kind of diagnostic sensor that combines multifunctional AB measurement capabilities for ionospheric research. Multifunctionality is realized through agility in frequency selection over an extended band (1.5 to 50 MHz), system modularity, complete system control by software written in C, and a user-friendly computer interface. This sensor, which the authors call the frequency-agile radar (FAR), incorporates dual radar channels and an arbitrary waveform synthesizer that allows creative design of sophisticated waveforms as a means of increasing its sensitivity to weak signals while minimizing loss in radar resolution. The sensitivity of the FAR is determined by two sets of power amplifier modules: four 4-kW solid-state broadband amplifiers, and four 30-kW vacuum tube amplifiers. FAR control is by an AT-bus personal computer with on-line processing by a programmable array processor. The FAR does not simply house the separate functions of most radio sensors in use today, it provides convenient and flexible access to those functions as elements to be used in any combination. Some of the first results obtained with the FAR during field campaigns are presented to illustrate its versatility. The authors also mention the potential of the FAR for atmospheric remote sensing

L8 ANSWER 8 OF 11 INSPEC (C) 2006 IET on STN

ACCESSION NUMBER: 1988:3183975 INSPEC

DOCUMENT NUMBER: A1988-097042

TITLE: Efficiency estimates of two ways of muon production in

HMC-reactor

AUTHOR: Petrov, Yu.V.; Sakhnovsky, E.G. (Leningrad Nucl. Phys.

Inst., Gatchina, USSR)

SOURCE: Muon Catalyzed Fusion (1988), vol.3, no.1-4, p. 571-6,

7 refs.

CODEN: MCFUEX, ISSN: 0259-9805

Conference: International Symposium on Muon Catalyzed

Fusion (μ CF-87), Gatchina, USSR, 25-30 May 1987

DOCUMENT TYPE: Conference; Conference Article; Journal

TREATMENT CODE: Theoretical COUNTRY: Switzerland LANGUAGE: English

AN 1988:3183975 INSPEC DN A1988-097042

AB The efficiency of muon utilization is estimated by the Monte Carlo method for two ways of muon production: in the reactor either with the vacuum decay unit as a converter or without converter with the gaseous deuterium-tritium target as a synthesizer. The losses

of muons in a lithium pion-producing target are evaluated for the model with a converter

L8 ANSWER 9 OF 11 INSPEC (C) 2006 IET on STN ACCESSION NUMBER: 1988:3080002 INSPEC

DOCUMENT NUMBER: B1988-015628

TITLE: Fully solid-state radar for air traffic control de Ledinghen, N.; Wonnenberger, L. (Thomson-CSF,

Paris, France)

SOURCE: International Conference Radar 87 (Conf. Publ.

No.281), 1987, p. 145-9 of xvii+612 pp., 11 refs.

ISBN: 0 85296 352 1

Published by: IEE, London, UK

Conference: International Conference Radar 87 (Conf.

Publ. No.281), London, UK, 19-21 Oct. 1987

DOCUMENT TYPE: Conference; Conference Article

TREATMENT CODE: Practical COUNTRY: United Kingdom

LANGUAGE: English

AN 1988:3080002 INSPEC DN B1988-015628

The safest answer to air traffic control requirements in terminal areas is still obtained by the use of primary radars. To satisfy increasing requirements in terms of all weather and all sites performance, of service reliability and ease of maintenance, primary radars for approach air traffic control have incorporated solid-state technology in receivers, synthesizers, and processing. In most of today's radars, however, the transmitter and the display subsystems continue to use vacuum tubes

L8 ANSWER 10 OF 11 INSPEC (C) 2006 IET on STN

ACCESSION NUMBER: 1984:2271527 INSPEC

DOCUMENT NUMBER: C1984-031836

TITLE: Micro-professor MPF-1 Plus

AUTHOR: Tooley, M.

SOURCE: Practical Electronics (April 1984), vol.20, no.4, p.

58-60, 0 refs.

CODEN: PRELBY, ISSN: 0032-6372

DOCUMENT TYPE: Journal TREATMENT CODE: Practical COUNTRY: United Kingdom

LANGUAGE: English

AN 1984:2271527 INSPEC DN C1984-031836

The author describes the Micro-professor MPF-1 Plus which is a low-cost Z80 based microprocessor learning aid. This basic system, consists of a single-board fitted with a Z80 CPU, 2K ROM, 2K RAM, and a 49-key keyboard which uses a conventional QWERTY layout. The documentation includes a monitor listing, and a `User's Experiment Manual'. There is a twenty character, fourteen segment, vacuum fluorescent display. The various options available include an EPROM programmer, speech synthesizer, printer/disassembler, and I/O board. A separate AC mains adaptor is supplied which operates from a 240 V 50 Hz supply and provides a nominal 9 V output at 600 mA

L8 ANSWER 11 OF 11 COMPENDEX COPYRIGHT 2006 EEI on STN

ACCESSION NUMBER: 1995(51):847 COMPENDEX

TITLE: Frequency-agile radar: a multifunctional approach to

remote sensing of the ionosphere.

AUTHOR: Tsunoda, R.T. (SRI Int, Menlo Park, CA, USA);

Livingston, R.C.; Buonocore, J.J.; McKinley, A.V. Radio Science v 30 n 5 Sep-Oct 1995.p 1623-1643

CODEN: RASCAD ISSN: 0048-6604

PUBLICATION YEAR: 1995
DOCUMENT TYPE: Journal
TREATMENT CODE: Application
LANGUAGE: English
AN 1995(51):847 COMPENDEX

SOURCE:

AB We introduce a new kind of diagnostic sensor that combines multifunctional measurement capabilities for ionospheric research. Multifunctionality is realized through agility in frequency selection over an extended band (1.5 to 50 MHz), system modularity, complete system control by software written in C, and a user-friendly computer interface. This sensor, which we call the frequency-agile radar (FAR), incorporates dual radar channels and an arbitrary waveform synthesizer that allows creative design of sophisticated waveforms as a means of increasing its sensitivity to weak

signals while minimizing loss in radar resolution. The sensitivity of the FAR is determined by two sets of power amplifier modules: four 4-kW solid-state broadband amplifiers, and four 30-kW vacuum tube amplifiers.FAR control is by an AT-bus personal computer with on-line processing by a programmable array processor. The FAR does not simply house the separate functions of most radio sensors in use today, it provides convenient and flexible access to those functions as elements to be used in any combination. Some of the first new results obtained with the FAR during recent field campaigns are presented to illustrate its versatility. These include (1) the first detection of anomalous high-frequency (HF) reflections from a barium ion cloud, (2) the first evidence of unexpectedly large drifts and a shear north of the equatorial electrojet, (3) the first HF radar signature of a developing equatorial plasma bubble, and (4) the first measurements by a portable radar of altitude-extended, quasi-periodic backscatter from midlatitude sporadic E. We also mention the potential of the FAR for atmospheric remote sensing. (Author abstract) 78 Refs.

=> display 19 1-22 ibib abs

L9 ANSWER 1 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:402330 CAPLUS

TITLE: Integrated momentum exchanger for preventing exhaust

pollution

INVENTOR(S): Zhang, Yuguang; Jiao, Xinmin; Zhang, Zhongqiang

PATENT ASSIGNEE(S): Guangzhou Tunju Industry Co., Ltd., Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu

CODEN: CNXXEV

DOCUMENT TYPE: Patent LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1724853	Α	20060125	CN 2005-10035306	20050616
PRIORITY APPLN. INFO.:			CN 2005-10035306	20050616

AB The title integrated momentum exchanger comprises connected parallel momentum exchangers arranged by multiple stages, wherein the exchanger of each stage comprises injection receiving tubes, diffusers, tapered bores, and negative pore; multiple pressurization pipes are disposed in parallel between the first and forth stage momentum exchanger; one end of the first stage momentum exchanger is connected with an exhaust port of exhaust gas while the other end is connected to the second stage exchanger; the exchangers are sequentially connected with the corresponding next stage exchanger one by one; the terminal stage exchanger is connected to a noise reduction section which is connected with a gas discharge pipe via a connecting flange; and the gas discharge pipe is connected with an end discharge port via a vacuum gas recovery rectification device.

L9 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2006:295896 CAPLUS

TITLE: Effluent treatment type piping of dentistry chair unit

[Machine Translation].

INVENTOR(S): Nakano, Hitoshi

PATENT ASSIGNEE(S): [NAME NOT TRANSLATED] ****, Japan SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	
JP 2006082067 PRIORITY APPLN. INFO.:	A2			20040917
AB [Machine Translation treatment type piping dentistry clinic is confluence unit 2 where the draining separator facilities it does surfaces due to the a and the surfacing switch 11 of the sylvacuum air tube oper circuit 27 or switch is done, the waster and closing valve 6 draining separator electromagnetic oper draining discharge valve 7 attachment page 122 attachment water facilities it did in connected the pipe is not taken to exist with draining separator	ng which assure hich, coing pip 13 the flow retain and experience with equip wattach 13, draming arm which expressure conduits sting conduits at or 13 rand conduits and conduits arm and conduits and c	ch can do the cd. Dentistre connects with ping a which float valve cat receiving the cope manual operates, a cope facilities and 3 is estement draining. In the closing value cation air perception sing exit pipe which the salue in the coperation, and coperation, are considered.	Improvement of the ef- barrier free conversion y chair unit it install vacuum air ties 10 and distribution seat 23 which, assistant unit 10 connection piper eration or air valve ided automatically in s the switch es hanger 5 distribution ablished to electromage g exit piping of e tank with lve 17 for the ic opening and closing	fluent on of the ls the s 21 which ing the end of the on facilities netic opening istribution , it ser 9 ater

L9 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:1222813 CAPLUS

DOCUMENT NUMBER: 144:441134

TITLE: Hot radial pressing: an alternative technique for the

manufacturing of plasma-facing components

AUTHOR(S): Visca, E.; Libera, S.; Mancini, A.; Mazzone, G.;

Pizzuto, A.; Testani, C.

CORPORATE SOURCE: C.R. Frascati, Associazione EURATOM-ENEA sulla

Fusione, Frascati, 00044, Italy

SOURCE: Fusion Engineering and Design (2005), 75-79, 485-489

CODEN: FEDEEE; ISSN: 0920-3796

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

AB The hot radial pressing (HRP) manufacturing technique is based on the radial diffusion bonding principle performed between the cooling tube and the armor tile. The bonding is achieved by pressurizing the cooling tube while the joining interface is kept at

the **vacuum** and temperature conditions. This technique has been used for the manufacturing of relevant mock-ups of the ITER divertor vertical target.

Tungsten monoblock mock-ups were successfully tested to high heat flux thermal fatigue (20 MW/m2 of absorbed heat flux for 1000 cycles). After these good results the activity is now focused on the developing of a manufacturing process suitable also for the CFC monoblock mock-ups. A FE calcn.

was performed to investigate the stress involved in the CFC tiles during the process and to avoid the CFC fracture. The results obtained by the FE calcn. and by the test performed in air simulating a HRP manufacturing process for a CFC monoblock mock-ups are reported.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:1175122 CAPLUS

TITLE: Combined pressure test and clean apparatus

INVENTOR(S): Nealon, Joseph M.

PATENT ASSIGNEE(S): The Boeing Company, USA SOURCE: U.S. Pat. Appl. Publ.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	US 2005241677	A1	20051103	US 2004-838048	20040503
PRIO	RITY APPLN. INFO.:			US 2004-838048	20040503
AB	An apparatus for cl	eaning .	and pressure	testing tube structure	s

An apparatus for cleaning and pressure testing tube structures comprising a cleaning fluid supply pump and a pressurization pump alternately in fluid communication with a feed header having a feed header interface engageable to an end of at least one tube structure and a drain header having a drain header interface engageable to an opposing end of the at least one tube structure and an outlet valved so as to be selectively closed or opened depending on mode of operation of the apparatus. The apparatus cleans and pressure tests a tube by engaging a tube between the feed header interface and the drain header interface and maintaining said engagement while sequentially flowing a cleaning fluid through the inner diameter of the hollow tube, pressurizing a static fluid within the hollow tube, and releasing fluid from the tube.

L9 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:408842 CAPLUS

DOCUMENT NUMBER: 142:466440

TITLE: Hydrogen purification process using pressure swing

adsorption for fuel cell applications

INVENTOR(S): Gittleman, Craig S.; Appel, William Scot; Winter,

David Phillip; Sward, Brian Kenneth

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 21 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATE	NT NO.	KIND	DATE	APPLICATION	NO.	DATE				
US 2	005098034	A1	20050512	US 2003-7063	320	20031112				
PRIORITY A	APPLN. INFO.:			US 2003-7063	320	20031112				
AB A PS	A system that p	purifies	a feed gas,	such as a re	eformate ga	s in fuel				
cell	system is disc	closed.	The PSA sys	tem includes	a series o	f				
vess	vessels housing an adsorbent or combination of adsorbents that									
	adsorb carbon monoxide, carbon dioxide, nitrogen, water and methane in the									
refo:	rmate gas. The	e adsorb	ent vessels	are connected	i to					
each	other and a fe	eed mani	fold, a prod	uct manifold	and an exh	aust manifold				
thro	igh suitable co	onduits,	where the q	as flows are	controlled	by a product				
rota	ting valve and	feed ro	tating valve	or a series	of					
	shut valves.					s				
	nat the vessels									
	lization, blow									
	ction to puri									

L9 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:1118346 CAPLUS

TITLE: Method and apparatus for high-pressure wafer

processing and drying

INVENTOR(S): Bergman, Eric J.; Sharp, Ian; Meuchel, Craig P.;

Woods, H. Frederick

PATENT ASSIGNEE(S): Semitool, Inc., USA

SOURCE: Taiwan

CODEN: TWXXA5

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. PATENT NO. ----------TW 565873 R 20031211 TW 2001-90100742 20010112 PRIORITY APPLN. INFO.: US 2000-481651 A 20000112 A system for high-pressure drying of semiconductor wafers includes the insertion of a wafer into an open vessel, the immersion of the wafer in a liquid, pressure-sealing of the vessel, pressurization of the vessel with an inert gas, and then the controlled draining of the liquid using a moveable

drain that extracts water from a depth maintained just below the gas-liquid interface. Thereafter, the pressure may be reduced in the vessel and the dry and clean wafer may be removed. The high pressure suppresses the boiling point of liquids, thus allowing higher temperatures to be used to optimize reactivity. Megasonic waves are used with pressurized fluid to enhance cleaning performance. Supercritical substances are provided in a sealed vessel

containing a wafer to promote cleaning and other treatment.

ANSWER 7 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:1093064 CAPLUS

TITLE: Vacuum type kimchi storing device and method thereof

Mito, Datsuhiko; Mito, Tsutae INVENTOR(S): PATENT ASSIGNEE(S): Mito Tsutae, Japan; Mito Datsuhiko

SOURCE: Repub. Korean Kongkae Taeho Kongbo, No pp. given

CODEN: KRXXA7

DOCUMENT TYPE: Patent LANGUAGE: Korean

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

L9

KIND DATE APPLICATION NO. PATENT NO. DATE KR 2000014282 ---------20000306 KR 1998-33633 A 19980819 PRIORITY APPLN. INFO.: KR 1998-33633 19980819 PURPOSE: A sanitary kimchi storing device is provided to keep a flexible container in a kitchen, in a room, or in a refrigerator by sealing firmly for the smell of kimchi not to be leaked out. CONSTITUTION: A kimchi storing device includes: a flexible container(1) for containing a kimchi to be sealed; a connecting tube(14) being combined to the flexible container for forming an air passage to discharge the air inside; a vacuum generating instrument(16) being connected to the connecting tube for pressurizing to the kimchi by the transformation of the flexible container by extracting the air inside of the flexible container; and an opening and closing valve being combined to the connecting tube. Therefore, the kimchi container has an

excellent sealing force for the kimchi smell not to be leaked out.

ACCESSION NUMBER: 2004:753638 CAPLUS

TITLE: Vacuum blower place and its operational method

[Machine Translation].

INVENTOR(S): Shimizu, Osamu; Ikeda, Keisuke

PATENT ASSIGNEE(S): Ebara Corp., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004255318 PRIORITY APPLN. INFO.: AB [Machine Translati its operational me energy efficiency catchment tank 3 a possess with 1 whi tank 3 and sewage catchment tank 3 w the sewage, to des	A2 on of De thod whi and the ind vacuu ch is co force tu ith vacu ignate s	20040916 scriptors]. ch assure co improvement m blower the nnected 7 an be 5, decomp um blower, 7 ewage collec	JP 2003-49938 JP 2003-49938 Offer the vacuum blowed st decrease, the improvement of system stability. It is sewage incurrent canals the said water catched the water catched t	20030226 20030226 er place and rement of the water to ment
sewage collection drains the sewage catchment tank 3, roots type vacuum sucking/absorbing pressure pipe Throtank 3, through at the other sucking/to air release pip vacuum blower and	draining which pr making u blower a mouth of ough, as mospheri absorbing 9, exh 7 decomp	unit of the essurizes in se of the res vacuum blo one side of you connect c gate valve g mouth to taust do with ress inside	ciprocal rotary operati wer 7, the said vacuum blower 7 t to the water catchment	onal possible the nect tving of said

L9 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:678016 CAPLUS

TITLE: The repairing methods of the draining installation

tube and the support winch which is used

[Machine Translation].

INVENTOR(S): Kimura, Eiki

PATENT ASSIGNEE(S): Kimura, Shiqeki, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE	
JP 2004232329	A2	20040819	JP 2003-21878	20030130	
JP 3685494	B2	20050817			
PRIORITY APPLN. INFO.:			JP 2003-21878	20030130	

[Machine Translation of Descriptors]. It operates without digging up the regeneration remedial work of the burying draining installation tube which from the sewage measure and the rainwater measure has been communicated to the sewer main pipe, simultaneously, operates also the regeneration repair of the installation section of the draining installation tube and the main pipe. The repairing materials connecting with 5 which includes the tubular repair cloth material

51 which impregnation it could point the synthetic resin and tubular reversal rubber 4, this connection pressurizing expanding to the support plate 94 where you install inside reversal guide 2, reversal rubber in order from reversal guide 2 to inside the draining installation tube P₁ for repairing materials 5 to be outside reversal rubber 4, reversing inserting 4 and repairing materials 5 due to the action to of reversal rubber 4 of high pressure fluid A, extends repair cloth material advanced 51_Einto the main pipe P₀ arranges reversal rubber 4 inside the main pipe P₀to the point of reversal rubber 4 As swelling balloon 4b is formed, repairing materials 5 pressure welding is done on the installation tube P₁inside perimeter aspect, repair cloth material advanced 51_Ein the brim R form which covers installation tube mouth PE it hardens the impregnation synthetic resin when opening pressure welding it is done, pulls out reversal rubber 4 after the hardening, the repair regeneration tube it becomes shape depending upon 1 repair cloth material 51.

ANSWER 10 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:568153 CAPLUS

DOCUMENT NUMBER:

CORPORATE SOURCE:

139:236581

TITLE:

Experimental verification of effectiveness of a

pressure suppression system in ITER

AUTHOR(S):

Takase, K.; Shibata, M.; Watanabe, H.; Akimoto, H.

Japan Atomic Energy Research Institute, Japan

SOURCE:

JAERI-Review (2003), 2003-004, Nuclear Energy System

Department Annual Report (2001-2002), 92-94

CODEN: JERVE9

DOCUMENT TYPE:

Report LANGUAGE: English

Effectiveness of the ITER vacuum vessel pressure suppression system (VVPSS) during the ingress-of-coolant event (ICE) was studied. A concept of the ITER VVPSS mainly consists of a suppression tank, drain tank, relief pipes, drain pipe and rapture disks. The suppression tank initially holds H2O under low temperature and pressure (25° and 2.3 kPa) and is connected through 3 relief pipes with the plasma-facing components (PFC). The drain tank is connected through a drain pipe with the bottom of the VV. Because of the pressurization during the ICE the rapture disks at the relief and drain piping are broken. Consequently, the generated vapor in the PFC during the ICE flows through the relief pipes into the suppression tank and condenses. However, the remained H2O in the PFC goes through the divertor and drain pipe to the drain tank. It was found from the exptl. results that the ITER VVPSS were very effective to reduce the pressure rise during the ICE.

ANSWER 11 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:497882 CAPLUS

TITLE:

Portable-type cleaning device for internal combustion

engine

INVENTOR (S):

Yen-hsi Chanq,

PATENT ASSIGNEE(S):

Taiwan U.S.

SOURCE:

CODEN: USXXAM

DOCUMENT TYPE:

Patent

LANGUAGE: FAMILY ACC. NUM. COUNT:

English

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6584993	B1	20030701	US 2000-706381	20001106
PRIORITY APPLN. INFO.:	;		US 2000-706381	20001106
AB A portable-type of	cleaning	device for	internal combustion	engine comprising

a container containing a cleaning solution and a guiding tube connected to the container and the internal combustion engine, and an opening being provided at the top end of the container for the insertion of the guiding tube, wherein, the middle section of the quiding tube is provided with a pressurizing hole for the entry of air, and the height of the pressurizing hole is at least higher than that of the level of the cleaning solution within the container. The other end of the quiding tube is directly inserted into the air-inlet tube of the internal combustion engine. The vacuum suction created by igniting the internal combustion engine drives the cleaning solution and air to enter respectively through the bottom end and the pressurizing hole of the tube. At the same time, the air and the cleaning solution are mixed forming into bubbles or atomized, entering the internal combustion engine. Thus the accumulated carbon in the internal combustion engine and the pipes thereof are cleaned away.

REFERENCE COUNT:

21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 12 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2003:34152 CAPLUS

TITLE:

Purge method of the residual gas which is inside the

cylinder cabinet and its piping. [Machine

Translation].

INVENTOR(S):

Sakamoto, Yutaka; Kano, Tsuneo; Ogawa, Takashi; Matsumura, Hiroshi; Sango, Toshiaki; Ito, Kiyosumi;

APPLICATION NO.

DATE

Ootake, Norio

PATENT ASSIGNEE(S):

NEC Corp., Japan; Toyoko Kagaku Co., Ltd.

Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DATE

DOCUMENT TYPE: LANGUAGE:

SOURCE:

Patent Japanese

FAMILY ACC. NUM. COUNT:

PATENT NO.

KIND

PATENT INFORMATION:

	IMILMI NO.	11111	Dill	111 1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	22	
	JP 2003014193	A2	20030115	JP 2001-194662	20010627	
	TW 557342	В	20031011	TW 2002-91114263	20020627	
	US 6698469	B2	20040302	US 2002-180497	20020627	
PRIO	RITY APPLN. INFO.:			JP 2001-194662 A	20010627	
AΒ	[Machine Translation	n of De	scriptors].	While primary side arm	ranging pipe	
				done at high efficiency		
	_			nd immediately before	. ,	
	purge, while primar					
	pressurizing, the vacuum generator is made to stop. The					
	cylinder 1 where gas 22 is accommodated has cylinder original					
	<pre>valve 23, filling up tube 2, primary side piping 14, air</pre>					
	operating valve 6, decompression valve 7, downstream					
	piping through 19 and air operating valve 10, connects					
	on supplier. Inert gas 15, through air operating valve 13, it flows into					
	primary side piping 14. As for primary side piping, air operating					
	valve through 5 and piping 20, you connect to vacuum					
	generator 11. Whil	e prima	ry side arra	nging pipe, 2-10 purge	it	
				ile primary side arrang		
	doing compressed leaving purge the vacuum pulling of					
				the inert gas of amount	is	
	repeated automatica					
	repeated addomatica	ııy, as	a CAMAUSC I			

ANSWER 13 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2002:918541 CAPLUS

TITLE:

The method of fabrication of the metal body which

possesses the tube road. [Machine

Translation].

INVENTOR(S):

Ariga, Tadashi

PATENT ASSIGNEE(S):

[NAME NOT TRANSLATED], Japan Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

SOURCE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.	KIND	DATE		DATE	
	JP 2002347036	A2	20021204	JP 2001-154978	20010524	
PRIO	RITY APPLN. INFO.:			JP 2001-154978	20010524	
AB				The method of producir		
	body which provides	the tu	be road whic	h travels in a complica	ated	
	way efficiently is	offered	. In the co	mponent (11) - (15), th	ne	
	tube road (21) of t	he liqu	id and the v	apor etc (24) being	the	
	concave section whi	ch beco	mes and some	thing which to form in	the	
	respective component with machining, to put the brazing filler metal of					
foil condition to the respective composition plane, while the accumulating						
and the vacuum or in the inert gas pressurizing and						
heating unifies the hole with wax attaching connecting, as for						
	the tube road (21) entrance (21a) (21c) with passage (21b), as					
for the tube road (22) entrance (22a) (22c) with passage (22b),						
				with passage (23b), th		
				th like the passage (24		
				re it can provide the t		
	road which travels					
			<u>F</u> = = = = =	<i>1</i> -		

ANSWER 14 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2001:140023 CAPLUS

TITLE:

Shouldering formula water extinguishing equipment.

[Machine Translation].

INVENTOR(S):

Ishizuka, Kazuo; Noji, Yasuyuki; Taki, Tetsuya;

Kakuta, Kaneyasu; Yamazaki, Kenichi

PATENT ASSIGNEE(S):

SOURCE:

Yamato Protec Corp., Japan Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

KIND DATE APPLICATION NO. PATENT NO. DATE -------------------_____ JP 2001054585 A2 20010227 JP 1999-230116 19990816 PRIORITY APPLN. INFO.: JP 1999-230116 [Machine Translation of Descriptors]. To make the power of the manual pump and the like unnecessary, be able to drain water safely with one-hand operation even such as the slope whose foothold is bad by making drainage possible with the pressurization by the compressed air, to crack the use polyethylene terephthalate bottle is reused furthermore as the water container being light, the shouldering formula water extinguishing equipment which can assure the decrease of production cost and the retrenchment of the material is offered. Back negative child true form 1 constitutes due to passing water rod 7. In order in plural places of passing water rod 7, for oral section 3 A of use being completed polyethylene terephthalate bottle 3 to become downward, the bottle support oral section 23 where said polyethylene terephthalate bottle 3 is bonded to upside-down state is provided. Provides outlet 5 in the bottom of back negative child true form, 1 this outlet connects with 5 and the discharge tube 4 for the water sprinkling with combined hose 6. The water and the compressed air fill up in polyethylene terephthalate bottle 3. It is

possible to drain water from exhaust nozzle 15 by opening the opening and closing valve 17 inside discharge **tube** 4 for the water sprinkling with the one-hand which has the discharge **tube** 4 for the water sprinkling.

L9 ANSWER 15 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:242789 CAPLUS

DOCUMENT NUMBER: 130:239785

TITLE: Multifunctional vacuum oil filtration apparatus
INVENTOR(S): Zhang, Renjie; Dang, Yongxing; Zhang, Mingfei; Liu,

Huanlao; Shi, Linshan; Zhang, Zhourang; Jin, Fuqun;

Yu, Jianwei

PATENT ASSIGNEE(S): Electrical Equipment Factory of No. 3 Division of

Electrification Engineering Bureau, Ministry of

Railways, Peop. Rep. China

SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 11 pp.

CODEN: CNXXEV

DOCUMENT TYPE: Patent LANGUAGE: Chinese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 1171976	A	19980204	CN 1996-111701	19960809
CN 1053123	В	20000607		
ADTENU ADDIN THE			ON 1006 111001	1006000

PRIORITY APPLN. INFO.:

On 1996-111701

19960809

The title filter consists of pump for introducing oil, primary strainer, heater, vacuum pump, oil drain pump, fine strainer and valves for oil-feeding and oil-releasing, atomization blow head and evaporation elements in the vacuum pump, 2-5 sets of the tubular heaters arranging in a column, the oil-feeding tube of the heaters connecting to the lowest heater of the heaters, oil-releasing tube connecting to the highest heater, oil level monitor equipped on the side-wall of the vacuum pump.

oil level monitor equipped on the side-wall of the vacuum pump,

oil water separator between the vacuum pump and the vacuum pump, oil pressurization monitoring element

equipped on pipeline between the vacuum pump and the oil water separator, the control circuit and the oil pressurization

analog-processing circuit of oil level, oil pressure and oil temperature The oil level monitor includes upper and lower oil level monitors composed of flange, upper and lower inductors, fixed inductor, floating ball in driving connection to the fixed inductor, and upper and lower triggers set on the floating ball; signal output wire of the upper and lower inductors connects to the oil level control circuit. The oil pressurization monitoring element consists of humidity sensor and temperature transmitter set in the pipeline and connected to the oil pressurization analog-processing circuit in switch-box. Oil temperature sensor and temperature appearance are

output of the oil temperature sensor connects to the oil temperature control

equipped

on the pipeline between the vacuum pump and the heaters, and the signal

in the switch-box. Oil-feeding piezometer, vacuum piezometer, oil-releasing piezometer and filtering piezometer are equipped on corresponding pipelines in the titled filter, pressure sensors are also set in these pipelines, and the signal output wires of the pressure sensors connects to the pressure control circuit. Built-in cyclic valves are set in the pipeline between the oil-outs of the primary filter and the fine filter.

L9 ANSWER 16 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:492213 CAPLUS

DOCUMENT NUMBER: 130:58239

TITLE: Response of ITER to loss of vacuum accidents

AUTHOR(S): Gay, J. M.; Marbach, G.; Gulden, W.

CORPORATE SOURCE: Technicatome, Aix-en-Provence, 13791, Fr.

SOURCE: Fusion Engineering and Design (1998), 42, 89-93

CODEN: FEDEEE; ISSN: 0920-3796

PUBLISHER: Elsevier Science S.A.

DOCUMENT TYPE: Journal LANGUAGE: English

AB Air leakage into the ITER vacuum vessel initially

under vacuum during plasma burning or maintenance operations may lead to chemical reactions and to its pressurization. Production of energy, generation of large amts. of reaction products and radioactivity mobilization may be induced. In the frame of the Non-site Specific Safety Report (NSSR-1), this paper analyses and provides pressure transients inside the vessel, resulting in inlet or outlet gas

flows and amts. of activated materials released to the **connected** room and finally to the environment. It is shown that even during plasma burning phases, the amount of reaction products remains limited or negligible. Moreover, the final releases to the environment are well below the corresponding release limits.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 17 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:338254 CAPLUS

DOCUMENT NUMBER: 124:356757

TITLE: Purging of residues of reaction gases

SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

KIND DATE APPLICATION NO. PATENT NO. DATE JP 08088183 -----A2 19960402 JP 1994-222805 19940919 PRIORITY APPLN. INFO.: JP 1994-222805 The title process comprises use of a purge system, which consists of a purge gas vessel filled with an inactive gas (e.g., N) and supply pipes there from, which are common to a number of reaction gas cylinders connected to individual reaction systems and exhaust systems to purge residues of the reaction gases remaining in orifices of the valves of the cylinders and supply pipes connected there to. The purge gas vessel may be evacuated before filling the vessel with the inactive gas, and the orifices of the valves of the cylinders and supply pipes after exchange of the cylinder(s) may be checked for air-tightness by pressurizing to fill using the purge system. The process has advantages of low equipment cost, small area occupancy, and increased efficiency in use of the purge gas, and is useful for CVD and etching apparatus

L9 ANSWER 18 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1973:99577 CAPLUS

DOCUMENT NUMBER: 78:99577

TITLE: Water injecting device for high pressure gases

AUTHOR(S): Marzais, J. J. L.

CORPORATE SOURCE: Soc. Ethylene Plast., Paris, Fr.

SOURCE: Saf. High Pressure Polyethylene Plants (1973), 42-8.

AIChE: New York, N. Y.

CODEN: 26KCAS

DOCUMENT TYPE: Conference LANGUAGE: English

A water-injecting device for a high-pressure gas (e.g., C2H4 during AB polymerization) allows the temperature of the drained gas to be lowered, and the risks

of accidents when the gas is discharged into air are considerably lessened. The device consists of a tank fitted with a water inlet, a pressurizing tube connected to the inlet of a Venturi, a water-level indicator, a dip tube for draining connected to a discharge chimney, and exit drain, and an escape tube fitted with a rupture disk or valve and connected to the outlet of the discharge chimney. The system is thus protected in case of overpressure. Equations for design calcns. are given.

ANSWER 19 OF 22 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1972:103791 CAPLUS

DOCUMENT NUMBER: 76:103791

TITLE: Automatic device for the rapid differential-thermal

analysis of drugs at variable gas-phase pressures

AUTHOR (S): Shishkin, Yu. L.

CORPORATE SOURCE: Mosk. Med. Inst. im, Sechenova, Moscow, USSR

Khimiko-Farmatsevticheskii Zhurnal (1972), 6(1), 60-2 SOURCE:

CODEN: KHFZAN; ISSN: 0023-1134

DOCUMENT TYPE: Journal LANGUAGE: Russian

A DTA apparatus for the study and control of drugs comprises a heating block with 2 container cavities, one for the substance being tested and one for a standard, a differential thermocouple, a photocompensation amplifier and two automatic electronic potentiometers. A double porcelain tube surrounding the thermocouple is used to fix the position of the thermocouple in the sample and to pack down the sample. Sensitivity is controlled by an amplifier, e.g. for a 0.02 g sample, a heating rate of 13°/min, using a 0.2 mm diameter Chromel-Alumel thermocouple, the amplifier sensitivity range was 0.7 mV over the whole scale. To study gas phase processes, a pressurizing attachment can be fitted, comprising a buffer vessel (.apprx.20 1.) connected via a vacuum line to a pump, manometer and the sample tubes. All parts of the apparatus are sealed. The pressure range is <1 mm Hg to 2 atmospheric Thermograms of levomycin and oxytetracycline hydrate are given.

ANSWER 20 OF 22 INSPEC (C) 2006 IET on STN

ACCESSION NUMBER: 2006:8792921 INSPEC

TITLE: Hot radial pressing: An alternative technique for the

manufacturing of plasma-facing components

AUTHOR: Visca, E.; Libera, S.; Mancini, A.; Mazzone, G.;

Pizzuto, A.; (Associazione EURATOM-ENEA, Frascati,

Italy), Testani, C.

SOURCE: Fusion Engineering and Design (Nov. 2005), vol.75-79,

p. 485-9, 5 refs.

CODEN: FEDEEE, ISSN: 0920-3796

SICI: 0920-3796 (200511) 75/79L.485:RPAT; 1-Q

Doc.No.: S0920-3796(05)00255-3 Published by: Elsevier, Switzerland

DOCUMENT TYPE: Journal TREATMENT CODE: Practical Switzerland COUNTRY:

LANGUAGE: English

ΔN

2006:8792921 INSPEC AB The Hot radial pressing (HRP) manufacturing technique is based on the radial diffusion bonding principle performed between the cooling tube and the armour tile. The bonding is achieved by pressurizing the cooling tube while the joining interface is kept at the vacuum and temperature conditions. This technique has been used for the manufacturing of

relevant mock-ups of the ITER divertor vertical target. Tungsten monoblock mock-ups were successfully tested to high heat flux thermal fatigue (20MW/m2 of absorbed heat flux for 1000 cycles). After these good results the activity is now focused on the developing of a manufacturing process suitable also for the CFC monoblock mock-ups. A FE calculation was performed to investigate the stress involved in the CFC tiles during the process and to avoid the CFC fracture. The results obtained by the FE calculation and by the test performed in air simulating a HRP manufacturing process for a CFC monoblock mock-ups is reported in the paper. [All rights reserved Elsevier]

ANSWER 21 OF 22 COMPENDEX COPYRIGHT 2006 EEI on STN

ACCESSION NUMBER:

2005 (48):3945 COMPENDEX

TITLE:

Hot radial pressing: An alternative technique for the

manufacturing of plasma-facing components.

AUTHOR:

Visca, E. (Associazione EURATOM-ENEA sulla Fusione C.R. Frascati, 00044 Frascati-RM, Italy); Libera, S.; Mancini, A.; Mazzone, G.; Pizzuto, A.; Testani, C.

SOURCE:

Fusion Engineering and Design v 75-79 n SUPPL.

November 2005 2005.p 485-489 CODEN: FEDEEE ISSN: 0920-3796

PUBLICATION YEAR: DOCUMENT TYPE:

2005 Journal Theoretical English

TREATMENT CODE: LANGUAGE:

2005 (48):3945 COMPENDEX ΑN

The Hot radial pressing (HRP) manufacturing technique is based on the AB radial diffusion bonding principle performed between the cooling

tube and the armour tile. The bonding is achieved by pressurizing the cooling tube while the joining

interface is kept at the vacuum and temperature conditions. This technique has been used for the manufacturing of relevant mock-ups of the ITER divertor vertical target. Tungsten monoblock mock-ups were successfully tested to high heat flux thermal fatigue (20 MW/m2 of absorbed heat flux for 1000 cycles). After these good results the activity is now focused on the developing of a manufacturing process suitable also for the CFC monoblock mock-ups. A FE calculation was performed to investigate the stress involved in the CFC tiles during the process and to avoid the CFC fracture. The results obtained by the FE calculation and by the test performed in air simulating a HRP manufacturing process for a CFC monoblock mock-ups is reported in the paper. \$CPY 2005 Elsevier B.V. All rights reserved. 5 Refs.

ANSWER 22 OF 22 COMPENDEX COPYRIGHT 2006 EEI on STN

ACCESSION NUMBER:

1999(4):3565 COMPENDEX

TTTLE AUTHOR: Response of ITER to loss of vacuum accidents. Gay, J.M. (Technicatome, Aix-en-Provence, Fr);

Marbach, G.; Gulden, W.

MEETING TITLE:

Proceedings of the 1997 4th International Symposium on Fusion Nuclear Technology.Part C.

MEETING LOCATION:

Tokyo, Jpn

MEETING DATE:

06 Apr 1997-11 Apr 1997

SOURCE:

Fusion Engineering and Design v 42 n Pt C Sep 3 1998.p

89-93

CODEN: FEDEEE ISSN: 0920-3796

PUBLICATION YEAR:

1998 49293

MEETING NUMBER: DOCUMENT TYPE:

Journal

TREATMENT CODE:

General Review; Theoretical

LANGUAGE:

English

1999(4):3565 COMPENDEX AN

Air leakage into the ITER vacuum vessel initially AB

under vacuum during plasma burning or maintenance operations may lead to chemical reactions and to its pressurization. Production

of energy, generation of large amounts of reaction products and radioactivity mobilization may be induced. In the frame of the Non-Site Specific Safety Report (NSSR-1), this paper analyses and provides pressure transients inside the **vessel**, resulting in inlet or **outlet** gas flows and amounts of activated materials released to the **connected** room and finally to the environment. It is shown that even during plasma burning phases, the amount of reaction products remains limited or negligible. Moreover, the final releases to the environment are well below the corresponding release limits. (Author abstract) 5 Refs.